Russian Journal of Applied Chemistry 2015 vol.88 N8, pages 1261-1267

Recycling of molybdenum in iron-potassium catalysts for dehydrogenation of isoamylenes

Bikmurzin A., Lamberov A., Romanova R.
Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

© 2015 Pleiades Publishing, Ltd. Method is found and substantiated for recovery of molybdenum from a spent iron-potassium catalyst for dehydrogenation of isoamylenes to isoprene. The effect of various factors (nature and concentration of the extracting agent, temperature and duration of the extraction process, and ratio between the liquid and solid phases) on the selectivity of recovery and the yield of molybdenum was studied. It is shown that molybdenum can be recycled in manufacture of iron-potassium catalysts for dehydrogenation of isoamylenes to isoprene.

http://dx.doi.org/10.1134/S1070427215080066